

1. A switch fabric network for creating a packet encapsulating a protocol comprising:
a protocol encapsulation interface identifier;
packet field data;
a packet header using said protocol encapsulation interface identifier and packet field data; and
a first node adapted to create said packet header and to transmit said packet header to a second node.
2. A system of claim 1 wherein said packet field data is comprised of a bit count and a turn pool;
3. A system of claim 1 wherein said packet field data is comprised of a hop count and a multisource index.
4. A system of claim 1 wherein said packet field data is comprised of a credit length, a bit count, a turn pool, an operation, a PID index, an MTU, and an EUI.
5. A system in a switch fabric network for creating a packet encapsulating a protocol comprising:
a packet type identifier;
packet field data;
a packet header using said packet type identifier and packet field data; and
a first node adapted to create said packet header and to transmit said packet header to a second node.

6. A system according to claim 5 wherein said packet field data is comprised of an offset, a pipe index, a CRC, a field indicating dwords requested, a skip identifier; a drop identifier, a request type, and a transaction number.
7. A system according to claim 5 wherein said packet field is comprised of a sequence number, a completion type, a CRC, a payload dwords, an end identifier, and a transaction number.
8. A system according to claim 5 wherein said packet field is comprised of an offset, a pipe index, a CRC, a payload dwords, a skip identifier; a drop identifier; a write type, and a transaction number.
9. A system according to claim 5 wherein said packet field is comprised of a decomposition sequence number, a completion type, a CRC, payload dwords, an end identifier, and a transaction number.
10. A system according to claim 5 wherein said packet field is comprised of a decomposition sequence number, a pipe index, a CRC, a first payload dwords, an end identifier, a second payload dwords, a drop identifier, a sequenced write type, and a transaction number.
11. A computer-readable medium having stored thereon a data structure representing a packet comprising:
 - a first field comprising data representing a protocol encapsulation interface;
 - a field set comprising
 - a second field comprising data representing a credit length;

- a third field comprising data representing a traffic class;
- a fourth field representing a bypass queue;
- a fifth field representing a credit type;
- a sixth field representing a bit count; and
- a seventh field representing a turn pool.

12. A computer-readable medium having stored thereon a data structure comprising:
 - a first field comprising data representing a protocol encapsulation interface;
 - a second field comprising data representing a credit length;
 - a third field comprising data representing a traffic class;
 - a fourth field representing a hop count;
 - a fifth field representing a multicast source index;
 - a sixth field representing a bit count; and
 - a seventh field representing a turn pool.